March 20, 2014

FULERED ON SISSIA

Enforcement and Compliance Section Division of Water Pollution Control 6th Floor, L&C Annex, 401 Church Street; Nashville, TN 37243-1534

Subject:

2013 Annual Storm Water Discharge Monitoring Report

TMSP Number: TNR050328

AMEC Engineering and Infrastructure Project No. 3031132003

TNAMEC

AND CONSERVATION

APR 0 9 2014

DIV OF WATER RESOURCES

Dear Sir or Madam:

On behalf of Aqua-Chem, Inc. (Water Technology Division), AMEC Environment & Infrastructure (AMEC), submits the attached 2013 Annual Stormwater Monitoring Reports for Outfalls SW-001 through SW-005 (Outfall SW-004 combines and comingles with SW-003 and has been deleted). The SWPPP was updated in draft form in April 2013 and completed in November 2013.

Stormwater samples were collected April 4, 2013, at Outfalls SW-001, SW-002, SW-003, and SW-005. In runoff from Outfall SW-002, Iron exceeded the Benchmark Value of 5.0 mg/l and was reported to the TDEC Knoxville Environmental Field Office in April of 2013.

SW-002 inlet is in the loading dock at the northwest corner of Manufacturing and adjacent to a railroad siding. This location has not had a known exceedance in the past and was resampled in early June. Resample analytical results were: Total Aluminum -0.218 mg/l; Total Iron -0.588 mg/l; Total Zinc -0.356 mg/l; with Nitrate + Nitrite Nitrogen - ND. All parameters were below Benchmarks.

No metal working or handling are conducted in this area, but some coatings are applied. A railroad siding is adjacent to the Outfall, but has not been a problem in the past. The area draining to SWOF-002 at the northwestern corner of the manufacturing facility is undergoing ground water monitoring for a condition that could result in elevated iron levels in the perched water table (very near the ground surface). The major difference between the two sampling events was rainfall. The April sampling event was conducted 2 days after a 1.3 inch storm event. In the preceding 3 months precipitation amounts averaged 8.03 inches per month. The June re-sample event was conducted 8 days after a 0.3 inch storm event. The average rainfall per month in the preceding 5 months was 7.10 inches, with May having 4.7 inches. Therefore, the ground water table should have been deeper for the re-sample event with drier soil conditions, which, in turn, should have contributed to a lower content of Total Iron.

Sincerely,

AMEC Environment & Infrastructure

Jim Goddard, PE, CPESC

Senior 1 Engineer-Civil/Interim HSE

Coordinator/RSO

W. Paul Teichert

Senior Environmental Principal

JG/WPT:mlv

cc:

Tracy Gamble, Facilities Supervisor (Aqua-Chem)

File

Attachment

Correspondence:

AMEC Environment & Infrastructure, Inc.

9725 Cogdill Road

Knoxville, Tennessee 37932 Tel (865) 671-6774

Tel (865) 671-6774 Fax (865) 671-6254

amec.com



ANNUAL STORM WATER MONITORING REPORT

for Storm Water Discharges Associated with Industrial Activity under the

TENNESSEE MULTI-SECTOR GENERAL PERMIT (TMSP)

Facility Name:	Aqua-Chem, Inc.		TMSP Number:	TNR050328
Contact Person:	Tracy Gamble, Facilities Supervi	sor	Phone Number:	865-549-5428
This report is submi	itted for the following calendar year (e.g. 2007):	2013	Outfall Number:	SW-005
List all TMSP secto	rs which apply to discharge from this outfall:	AA	Sample Date:	4-4-13

LOW CONCENTRATION WAIVER (See Instructions Note 3): List all parameters for which the facility is certifying that there has not been a significant change in industrial activity or the pollution prevention measures in the area of the facility that drains to the outfall for which sampling was waived.

Parameters:

DIRECTIONS: In the spaces below, provide the results of storm water monitoring for the designated outfall. The parameters for which monitoring must be conducted depend on which industry sector(s) of the TMSP applies to the discharge. Look up your sector(s) in the permit and analyze for the parameters that

apply. If parameter is not listed below, submit additional sheets. All samples should be collected by grab technique

Parameter	ameter Benchmark Annual Sample Parameter (continued)		Benchmark (mg/L)	Annual Sample Résult (mg/L)	
Aluminum, Total	0.75	0.169	Magnesium, Total	0.064	
Ammonia	4.0	Proceed the contract of the co	Mercury, Total	0.0024	enarija je viježelju koji v čira vijegoja pavladaja do s
Arsenic, Total	0.15		Nickel, Total	0.875	
BOD, 5-Day	30		Nitrate + Nitrite Nitrogen	0.68	0.118
Cadmium, Total	0.0021		Oil and Grease	15	
Chromium, Total	1.8	SECTION SECTION	pН	5.0-9.0	
COD	120	711 - 241 Company (1911 - 1911 - 1914 - 19	Phenols	0.016	Antonio Capacili algora (1975) (1975) i dissi intelli di Antonio (1975) i di Antonio (1975) i di Antonio (1975)
Copper, Total	0.018	Service State of the service of the	Phosphorus, Total (as P)	2.0	rejan teet av 140 km2 een 170 een 180 ee 200 SE 1530 SE jalii kun 1902 SE 180 SE
Cyanide, Total	0.022		Selenium, Total	0.005	
Fluoride	1.8		Silver, Total	0.0038	Zerakon erholir begynnerek (Apr.).
Iron, Total	5.0	0.206	Total Suspended Solids (TSS)	150	A STATE OF THE STA
Lead, Total	0.156		Zinc, Total	0.395	0.253

CERTIFICATION AND SIGNATURE Make all entries in ink. This report must be signed by a responsible corporate officer for a corporation, a general partner for a partnership, the proprietor for a sole proprietorship, or a principal executive officer or ranking elected official for a public agency.

I certify under penalty of law that this document and all of its attachments were prepared under my direction or my supervision in accordance with a system designed to assure qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowledge violations.

David J.	Gens	terblur	n	
Printed Nam				-
Printed Nati	16			

President/CEO

Official Title

Signatur

INSTRUCTIONS

- 1. The purpose of this form is to report storm water (SW) monitoring results under the TMSP. Only one sample per calendar year is required (except Sectors J & H, for more details see the TMSP at http://tn.gov/environment/permits/strmh?o.shtml). Grab samples should be collected within the first 30 minutes (or as soon thereafter as practical, but not to exceed one hour) of when the runoff or snowmelt begins discharging. A separate form must be submitted for each outfall. If more than one sample is collected at any outfall, submit the average results of all monitoring data (for calculating average, use 1/2 of a detection level, if parameter was not detected). New facilities must conduct sampling in the year during which permit coverage was obtained and during each following year. The completed form must be submitted by March 31 of the following year, e.g. monitoring required during 2007 calendar year is due by March 31, 2008.
- 2. If the results of annual SW runoff monitoring demonstrates that the facility has exceeded the benchmark concentration, the permittee must inform The Division of Water Pollution Control's (the Division's) local Environmental Field Office (EFO) in writing within 30 days from the time SW monitoring results were received, describing the likely cause of the exceedance(s). Furthermore, within 60 days from the time SW monitoring results were received, the facility must review its storm water pollution prevention plan (SWPPP), make any modifications or additions to the plan which would assist in reducing runoff concentrations to less than the benchmark concentrations for that parameter,
- and submit to the local EFO a summary of the proposed SWPPP mountained.

 Low Concentration Waiver When the average concentration for a pollutant calculated from monitoring data collected from the manual calculated from monitoring is less than the benchmark concentration, a facility may waive monitoring appropriate in the last annual This form should be used for certification of low concentration waiver provision. 3. Low Concentration Waiver - When the average concentration for a pollutant calculated from monitoring data collected from the first four

Complete, sign and date this form before it is submitted. Keep a copy of the completed form for your economic SERVATION

Enforcement and Compliance Section Division of Water Pollution Control Floor, L&C Annex, 401 Church Street Nashville, TN 37243-1534

CN-1115 (Rev 12-06)

Client: AMEC Environment & Infrastructure, Inc.

Project/Site: Aqua-Chem Stormwater

TestAmerica Job ID: 490-23578-1

SDG: 3031132003_ASW

Lab Sample ID: 490-23578-4

Matrix: Water

Client Sample ID 4 5 Date Collected: 04/04/13 10:45

Analyte

Nitrate Nitrite as N

Date Collected: 04/04/13 10:45 Date Received: 04/05/13 08:10

Method: 200.7 Rev 4.4 - Metals (ICP) Analyte Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac Aluminum 0.169 0.100 mg/L 04/08/13 14:09 04/10/13 10:20 Iron 0.206 0.100 mg/L 04/08/13 14:09 04/10/13 10:20 Zinc 0.253 0.0500 mg/L 04/08/13 14:09 04/10/13 10:20 **General Chemistry**

RL

0.100

MDL Unit

mg/L

Result Qualifier

0.118

Analyzed Dil Fac

04/13/13 14:47

Prepared

TN DEPT OF ENVIRONMENT
AND CONSERVATION

APR 0 9 2014

DIV OF WATER RESOURCES

RECEIVED

TestAmerica Nashville



ANNUAL STORM WATER MONITORING REPORT

for Storm Water Discharges Associated with Industrial Activity under the

TENNESSEE MULTI-SECTOR GENERAL PERMIT (TMSP)

Facility Name:	Agua-Chem, Inc.		TMSP Number:	TNR050328
Contact Person:	Tracy Gamble, Facilities Supervi	sor	Phone Number:	865-549-5428
This report is subm	itted for the following calendar year (e.g. 2007):	2013	Outfall Number:	SW-003
List all TMSP secto	ors which apply to discharge from this outfall:		Sample Date:	4-4-13

LOW CONCENTRATION WAIVER (See Instructions Note 3): List all parameters for which the facility is certifying that there has not been a significant change in industrial activity or the pollution prevention measures in the area of the facility that drains to the outfall for which sampling was waived.

Parameters:

DIRECTIONS: In the spaces below, provide the results of storm water monitoring for the designated outfall. The parameters for which monitoring must be conducted depend on which industry sector(s) of the TMSP applies to the discharge. Look up your sector(s) in the permit and analyze for the parameters that apply. If parameter is not listed below, submit additional sheets. All samples should be collected by grab technique.

Parameter	meter Benchmark Annual Sample Parameter (continued) Result (mg/L)		Benchmark (mg/L)	Annual Sample Result (mg/L)	
Aluminum, Total	0.75	0.186	Magnesium, Total	0.064	
Ammonia	4.0	u samanda u samanda kan kan kan kan kan kan kan kan kan ka	Mercury, Total	0.0024	grings naverdants of Dendalband in agricultural
Arsenic, Total	0.15		Nickel, Total	0.875	
BOD, 5-Day	30		Nitrate + Nitrite Nitrogen	0.68	0.141
Cadmium, Total	0.0021		Oil and Grease	15	
Chromium, Total	1.8		рН	5.0-9.0	
COD	120	San da da carriera de la composition della compo	Phenols	0.016	yazılığı yaşıyı yaşıyı ildiği ildiği ildiği ildiği balan bal
Copper, Total	0.018	CYTATOTOPHEN	Phosphorus, Total (as P)	2.0	
Cyanide, Total	0.022		Selenium, Total	0.005	
Fluoride	1.8	POBLECTION PROPERTY AND	Silver, Total	0.0038	
Iron, Total	5.0	0.356	Total Suspended Solids (TSS)	150	TOTATORS COMMENTED TO THE
Lead, Total	0.156	76. eg: 170 v.A., a.g.: 36. a.g.: 11.1	Zinc, Total	0.395	0.183

CERTIFICATION AND SIGNATURE Make all entries in ink. This report must be signed by a responsible corporate officer for a corporation, a general partner for a partnership, the proprietor for a sole proprietorship, or a principal executive officer for ranking elected official for a public agency.

I certify under penalty of law that this document and all of its attachments were prepared under my direction or my supervision in accordance with a system designed to assure qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. Lam ware there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Provided to Constant have possiblity of the and imprisonment for knowing you

David J. Gensterblum President/CEO
Printed Name Official Title

INSTRUCTIONS

Signature

- 1. The purpose of this form is to report storm water (SW) monitoring results under the TMSP. Only one sample per calendar year is required (except Sectors J & H, for more details see the TMSP at http://tn.gov/environment/permits/strmh2o.shtml. Grab samples should be collected within the first 30 minutes (or as soon thereafter as practical, but not to exceed one hour) of when the runoff or snowmelt begins discharging. A separate form must be submitted for each outfall. If more than one sample is collected at any outfall, submit the average results of all monitoring data (for calculating average, use ½ of a detection level, if parameter was not detected). New facilities must conduct sampling in the year during which permit coverage was obtained and during each following year. The completed form must be submitted by March 31 of the following year, e.g. monitoring required during 2007 calendar year is due by March 31, 2008.
- 2. If the results of annual SW runoff monitoring demonstrates that the facility has exceeded the benchmark concentration, the permittee must inform The Division of Water Pollution Control's (the Division's) local Environmental Field Office (EFO) in writing within 30 days from the time SW monitoring results were received, describing the likely cause of the exceedance(s). Furthermore, within 60 days from the time SW monitoring results were received, the facility must review its storm water pollution prevention plan (SWPPP), make any modifications or additions to the plan which would assist in reducing runoff concentrations to less than the benchmark concentrations for that parameter, and submit to the local EFO a summary of the proposed SWPPP modifications (including a timetable for implementation).
- 3. Low Concentration Waiver When the average concentration for a pollutant calculated from monitoring data collected from the first four calendar years of monitoring is less than the benchmark concentration, a facility may waive monitoring requirements in the last annual monitoring period. This form should be used for certification of low concentration waiver provision.

Complete, sign and date this form before it is submitted. Keep a copy of the completed form for your records.

Submit the original completed and signed form to:

Enforcement and Compliance Section Division of Water Pollution Control 6th Floor, L&C Annex, 401 Church Street Nashville, TN 37243-1534

Client: AMEC Environment & Infrastructure, Inc.

Project/Site: Aqua-Chem Stormwater

TestAmerica Job ID: 490-23578-1 SDG: 3031132003_ASW

Client Sample ID: 3

Date Collected: 04/04/13 10:50 Date Received: 04/05/13 08:10 Lab Sample ID: 490-23578-3

Matrix: Water

Method: 200.7 Rev 4.4 - Metal	s (ICP)								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	0.186	***************************************	0.100		mg/L		04/08/13 14:09	04/10/13 10:17	1
Iron	0.356		0.100		mg/L		04/08/13 14:09	04/10/13 10:17	1
Zinc	0.183		0.0500		mg/L		04/08/13 14:09	04/10/13 10:17	1
General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	0.141		0.100		ma/l			04/13/13 14:46	





ANNUAL STORM WATER MONITORING REPORT

for Storm Water Discharges Associated with Industrial Activity under the

TENNESSEE MULTI-SECTOR GENERAL PERMIT (TMSP)

Facility Name:	Aqua-Chem, Inc.	is elikustik (neto eta biskoligi), elikosita. Boriska espirakon arrikalarriak elikosita.	TMSP Number:	TNR050328
Contact Person:	Tracy Gamble, Facilities Supervi	sor	Phone Number:	865-549-5428
This report is subm	itted for the following calendar year (e.g. 2007):	2013	Outfall Number:	SW-002 Resamp.
List all TMSP secto	ors which apply to discharge from this outfall:	AA	Sample Date:	6-2-13

LOW CONCENTRATION WAIVER (See Instructions Note 3); List all parameters for which the facility is certifying that there has not been a significant change in industrial activity or the pollution prevention measures in the area of the facility that drains to the outfall for which sampling was waived.

Parameters:

DIRECTIONS: In the spaces below, provide the results of storm water monitoring for the designated outfall. The parameters for which monitoring must be conducted depend on which industry sector(s) of the TMSP applies to the discharge. Look up your sector(s) in the permit and analyze for the parameters that

apply. If parameter is not listed below, submit additional sheets. All samples should be collected by grab technique

Parameter	rameter Benchmark Annual Sample Result (mg/L) Parameter (continued)		Benchmark (mg/L)	Annual Sample Result (mg/L)	
Aluminum, Total	0.75	0.218	Magnesium, Total	0.064	
Ammonia	4.0		Mercury, Total	0.0024	enevedorina etto nillo Apulajulipi.
Arsenic, Total	0.15	ec astonesia (Se asesa 191	Nickel, Total	0.875	engar igil seni Sil din a Fisika
BOD, 5-Day	30		Nitrate + Nitrite Nitrogen	0.68	ND
Cadmium, Total	0.0021	in Sendinskultzieropeistel	Oil and Grease	15	
Chromium, Total	1.8		pH	5.0-9.0	e feth Caragantija en it.
COD	120	THE PERSON NAMED IN THE PE	Phenols	0.016	
Copper, Total	0.018	es estados estados estados estados estados estados estados estados estados en estados en estados en estados estados en entre en estados en estados en estados en estados en estados en entre en estados en entre en estados en entre en estados en entre entre en entre en entre ent	Phosphorus, Total (as P)	2.0	
Cyanide, Total	0.022	36 (3 time 15 file 15 time) (2	Selenium, Total	0.005	
Fluoride	1.8		Silver, Total	0.0038	is tale a light subject to the light of the light.
Iron, Total	5.0	0.588	Total Suspended Solids (TSS)	150	
Lead, Total	0.156		Zinc, Total	0.395	0.356

CERTIFICATION AND SIGNATURE Make all entries in ink. This report must be signed by a responsible corporate officer for a corporation, a general partner for a partnership, the proprietor for a sole proprietorship, or a principal executive officer or ranking elected official for a public agency.

I certify under penalty of law that this document and all of its attachments were prepared under my direction or my supervision in accordance with a system designed to assure qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. If amfaward there are significant penalties, for submitting false information, including the possibility of fine and imprisonment for knowing vidiations.

			1// 151
David J. Gensterblum	President/CEO		- 41081 14
Printed Name	Official Title	Cionatura /	
Finited Name.	Official little	Signature	Date / /

INSTRUCTIONS

- 1. The purpose of this form is to report storm water (SW) monitoring results under the TMSP. Only one sample per calendar year is should be collected within the first 30 minutes (or as soon thereafter as practical, but not to exceed one hour) of when the runoff or snowmelt begins discharging. A separate form must be submitted for each outfall. If more than one sample is collected at any outfall, submit the average results of all monitoring data (for calculating average, use 1/2 of a detection level, if parameter was not detected). New facilities must conduct sampling in the year during which permit coverage was obtained and during each following year. The completed form must be submitted by March 31 of the following year, e.g. monitoring required during 2007 calendar year is due by March 31, 2008.
- 2. If the results of annual SW runoff monitoring demonstrates that the facility has exceeded the benchmark concentration, the permittee must inform The Division of Water Pollution Control's (the Division's) local Environmental Field Office (EFO) in writing within 30 days from the time SW monitoring results were received, describing the likely cause of the exceedance(s). Furthermore, within 60 days from the time SW monitoring results were received, the facility must review its storm water pollution prevention plan (SWPPP), make any modifications or additions to the plan which would assist in reducing runoff concentrations to less than the benchmark concentrations for that parameter, and submit to the local EFO a summary of the proposed SWPPP modifications (including a timetable for implementation).
- 3. Low Concentration Waiver When the average concentration for a pollutant calculated from monitoring data collected from the first four calendar years of monitoring is less than the benchmark concentration, a facility may waive monitoring period. This form should be used for certification of low concentration waiver provision. AND CONSERVATION

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Submit the original completed and signed form to:

Enforcement and Compliance Section Division of Water Pollution Control Floor, L&C Annex, 401 Church Street Nashville, TN 37243-1534

APR 0 9 2014

DIV OF WATER RESOURCES

RECEIVE BOAS 2309 and 2400

Client: AMEC Environment & Infrastructure, Inc. Project/Site: Aqua-Chem Stormwater

TestAmerica Job ID: 490-27942-1 SDG: 3031132003-SW3(Ann)

Client Sample ID: SWOF002

RESAMPLE

Lab Sample ID: 490-27942-1

Matrix: Water

Date Collected: 06/02/13 07:00

Date Received: 06/04/13 08:15

Method: 200.7 Rev 4.4 - Metals (ICP)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	0.218		0.100	····	mg/L		06/06/13 07:36	06/06/13 23:37	1
Iron	0.588		0.100		mg/L		06/06/13 07:36	06/06/13 23:37	1
Zinc	0.356		0.0500		mg/L		06/06/13 07:36	06/06/13 23:37	1
- General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	ND		0.100		mg/L			06/07/13 12:28	1



ANNUAL STORM WATER MONITORING REPORT

for Storm Water Discharges Associated with Industrial Activity under the

TENNESSEE MULTI-SECTOR GENERAL PERMIT (TMSP)

Facility Name:	Aqua-Chem, Inc.		TMSP Number:	TNR050328
Contact Person:	Tracy Gamble, Facilities Supervi	sor	Phone Number:	865-549-5428
This report is subm	itted for the following calendar year (e.g. 2007):	2013	Outfall Number:	SW-002
List all TMSP secto	ors which apply to discharge from this outfall:	AA	Sample Date:	4-4-13

LOW CONCENTRATION WAIVER (See Instructions Note 3); List all parameters for which the facility is certifying that there has not been a significant change in industrial activity or the pollution prevention measures in the area of the facility that drains to the outfall for which sampling was waived.

Parameters:

DIRECTIONS: In the spaces below, provide the results of storm water monitoring for the designated outfall. The parameters for which monitoring must be conducted depend on which industry sector(s) of the TMSP applies to the discharge. Look up your sector(s) in the permit and analyze for the parameters that

apply. If parameter is not listed below, submit additional sheets. All samples should be collected by grab technique

Parameter	ameter Benchmark Annual Sample Parameter (continued) (mg/L) Result (mg/L)		Benchmark (mg/L)	Annual Sample Result (mg/L)	
Aluminum, Total	0.75	0.316	Magnesium, Total	0.064	11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Ammonia	4.0	ele and electric section of the sect	Mercury, Total	0.0024	Migraticality after the concept week
Arsenic, Total	0.15	57, 32, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10	Nickel, Total	0.875	- Christ Campana (Campana)
BOD, 5-Day	30	erestorulla i filklish da sala jarib Rajarah	Nitrate + Nitrite Nitrogen	0.68	0.637
Cadınium, Total	0.0021	and Suit and Suit Control of S	Oil and Grease	15.	La Bara Salas Salas Salas
Chromium, Total	1.8	20	pН	5.0-9.0	
COD	120	THE CONTROL OF THE CONTROL OF THE	Phenols	0.016	estriciti coli estructus per estructus de la color de
Copper, Total	0.018	Ser Sasser of the service of the ser	Phosphorus, Total (as P)	2.0	
Cyanide, Total	0.022	era ber gradaka mare	Selenium, Total	0.005	
Fluoride	1.8		Silver, Total	0.0038	CONTRACTOR CONTRACTOR CONTRACTOR
Iron, Total	5.0	16.8	Total Suspended Solids (TSS)	150	
Lead, Total	0.156		Zinc, Total	0.395	0.278

CERTIFICATION AND SIGNATURE Make all entries in ink. This report must be signed by a responsible corporate officer for a corporation, a general partner for a partnership, the proprietor for a sole proprietorship, or a principal executive officer or Apking elected official for a public agency.

I certify under penalty of law that this document and all of its attachments were/prepared under my direction or my supervision in accordance with a system designed to assure qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I an hware there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violation

David J. Gensterblum	President/CEO			iff c	914
Printed Name	Official Title	Signature	Da		7
				I.	ν

INSTRUCTIONS

- 1. The purpose of this form is to report storm water (SW) monitoring results under the TMSP. Only one sample per calendar year is required (except Sectors J & H, for more details see the TMSP at http://tn.gov/environmentparmits/strmh2o.shtml)... Grab samples should be collected within the first 30 minutes (or as soon thereafter as practical, but not to exceed one hour) of when the runoff or snowmelt begins discharging. A separate form must be submitted for each outfall. If more than one sample is collected at any outfall, submit the average results of all monitoring data (for calculating average, use 1/2 of a detection level, if parameter was not detected). New facilities must conduct sampling in the year during which permit coverage was obtained and during each following year. The completed form must be submitted by March 31 of the following year, e.g. monitoring required during 2007 calendar year is due by March 31, 2008.
- 2. If the results of annual SW runoff monitoring demonstrates that the facility has exceeded the benchmark concentration, the permittee must inform The Division of Water Pollution Control's (the Division's) local Environmental Field Office (EFO) in writing within 30 days from the time SW monitoring results were received, describing the likely cause of the exceedance(s). Furthermore, within 60 days from the time SW monitoring results were received, the facility must review its storm water pollution prevention plan (SWPPP), make any modifications or additions to the plan which would assist in reducing runoff concentrations to less than the benchmark concentrations for that parameter, and submit to the local EFO a summary of the proposed SWPPP modifications (including a timetable for implementation).
- 3. Low Concentration Waiver When the average concentration for a pollutant calculated from monitoring data collected from the first four Low Concentration Waiver – When the average concentration for a pollutant calculated from monitoring data concerts from the last annual calculated from should be used for certification of low concentration waiver provision.

 Complete, sign and date this form before it is submitted. Keep a copy of the completed form for your results.

Submit the original completed and signed form to:

Enforcement and Compliance Section Division of Water Pollution Control Floor, L&C Annex, 401 Church Street Nashville, TN 37243-1534

Client: AMEC Environment & Infrastructure, Inc.

Project/Site: Aqua-Chem Stormwater

TestAmerica Job ID: 490-23578-1 SDG: 3031132003_ASW

Client Sample ID: 2

Date Collected: 04/04/13 10:20 Date Received: 04/05/13 08:10 Lab Sample ID: 490-23578-2

Matrix: Water

Method: 200.7 Rev 4.4 - Metals (ICP)							
Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	0.316	0.100		mg/L		04/08/13 14:09	04/10/13 10:13	1
Iron	16.8	0.100		mg/L		04/08/13 14:09	04/10/13 10:13	1
Zinc	0.278	0.0500		mg/L		04/08/13 14:09	04/10/13 10:13	1
General Chemistry								
Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	0.637	0.100		mg/L		P	04/13/13 14:46	1





ANNUAL STORM WATER MONITORING REPORT

for Storm Water Discharges Associated with Industrial Activity under the

TENNESSEE MULTI-SECTOR GENERAL PERMIT (TMSP)

Facility Name:	Agua-Chem, Inc.	oet de reguerant rende bisk	TMSP Number:	TNR050328
Contact Person:	Tracy Gamble, Facilities Supervise	or	Phone Number:	865-549-5428
This report is submitted for the following calendar year (e.g. 2007): 2013			Outfall Number:	SW-001
List all TMSP secto	ors which apply to discharge from this outfall:	AA	Sample Date:	4-4-13

LOW CONCENTRATION WAIVER (See Instructions Note 3); List all parameters for which the facility is certifying that there has not been a significant change in industrial activity or the pollution prevention measures in the area of the facility that drains to the outfall for which sampling was waived.

Parameters:

DIRECTIONS: In the spaces below, provide the results of storm water monitoring for the designated outfall. The parameters for which monitoring must be conducted depend on which industry sector(s) of the TMSP applies to the discharge. Look up your sector(s) in the permit and analyze for the parameters that

Parameter	meter Benchmark Annual Sample Parameter (continued)		Benchmark (mg/L)	Annual Sample Result (mg/L)	
Aluminum, Total	0.75	0.198	Magnesium, Total	0.064	
Ammonia.	4.0		Mercury, Total	0.0024	
Arsenic, Total	0.15		Nickel, Total	0.875	
BOD, 5-Day	30		Nitrate + Nitrite Nitrogen	0.68	0.104
Cadmium, Total	0.0021		Oil and Grease	15	
Chromium, Total	1.8		pH	5.0-9.0	
COD	120	romana (meganilar negrega garan dalah sanggan peganan dalah dalah dalah dalah	Phenols	0.016	Control of the second of the s
Copper, Total	0.018		Phosphorus, Total (as P)	2.0	16-Kinagi 22-763 - 27 (15) (21) (21)
Cyanide, Total	0.022		Selenium, Total	0.005	
Fluoride	1.8	Transi da arten daras pro Sedi da dikokara 25.55.	Silver, Total	0.0038	January Survival Comments
Iron, Total	5.0	0.137	Total Suspended Solids (TSS)	150	
Lead, Total	0.156	goradiyaşı dirilər ələngə	Zinc, Total	0.395	ND *

CERTIFICATION AND SIGNATURE Make all entries in ink. This report must be signed by a responsible corporate officer for a corporation, a general partner for a partnership, the proprietor for a sole proprietorship, or a principal executive officer or ranking elected official for a public agency.

I certify under penalty of law that this document and all of its attachments were prepared under my direction or my supervision in accordance with a system designed to assure qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those person directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. It an aware there are significant penalties for submitting false information, including the possibility of fine and imprisonment for ki

David J. Gensterblum	President/CEO		1/02/	14
Printed Name	Official Title	Signature	Date //	Z
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INSTRUCTIONS

- 1. The purpose of this form is to report storm water (SW) monitoring results under the TMSP. Only one sample per calendar year is required (except Sectors J & H, for more details see the TMSP at http://tn.gov/environment/permits/strmb2o.shtml). Grab samples should be collected within the first 30 minutes (or as soon thereafter as practical, but not to exceed one hour) of when the runoff or snowmelt begins discharging. A separate form must be submitted for each outfall. If more than one sample is collected at any outfall, submit the average results of all monitoring data (for calculating average, use % of a detection level, if parameter was not detected). New facilities must conduct sampling in the year during which permit coverage was obtained and during each following year. The completed form must be submitted by March 31 of the following year, e.g. monitoring required during 2007 calendar year is due by March 31, 2008.
- form must be submitted.

 2. If the results of annual SW runoff monitoring control's (the Division s) the time SW monitoring results were received, describing the likely cause of the exceedance.

 SW monitoring results were received, the facility must review its storm water pollution prevention plan (Sm. 1977) or additions to the plan which would assist in reducing runoff concentrations to less than the benchmark concentrations for true and submit to the local EPO a summary of the proposed SWPPP modifications (including a timetable for implementation).

 3. Low Concentration Waiver When the average concentration for a pollutant calculated from monitoring data the last annual monitoring period. This form should be used for certification of low concentration waiver provision.

 Complete, sign and date this form before it is submitted. Keep a copy of the completed form for your records. SERVATION

 Enforcement and Compliance Section

 Division of Water Pollution Control

 of Floor, L&C Annex, 401 Church Street

 Nashville, TN 37243-1534

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Client: AMEC Environment & Infrastructure, Inc.

Project/Site: Aqua-Chem Stormwater

TestAmerica Job ID: 490-23578-1

SDG: 3031132003_ASW

Client Sample ID: 1

Lab Sample ID: 490-23578-1

Matrix: Water

Date Collected: 04/04/13 10:35 Date Received: 04/05/13 08:10

Method: 200.7 Rev 4.4 - Metals (IC	P)		•						
Analyte	Result	Qualifier	RL	MDL	Unit	Ð	Prepared	Analyzed	DII Fac
Aluminum	0.198		0.100		mg/L		04/08/13 14:09	04/10/13 10:03	1
Iron	0.137		0.100		mg/L		04/08/13 14:09	04/10/13 10:03	1
Zinc	ND		0.0500		mg/L		04/08/13 14:09	04/10/13 10:03	1
General Chemistry									
Analyte	Result	Qualifier	RL.	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	0.104		0.100		mg/L			04/13/13 14:45	1